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 [Module 6 Labs](#) |
 Lab 1 - Copy Start to TFTP

Lab 1 - Copy Start to TFTP

Lab 1: Copy startup config using TFTP

The physical topology is as shown in Figure 16–1.

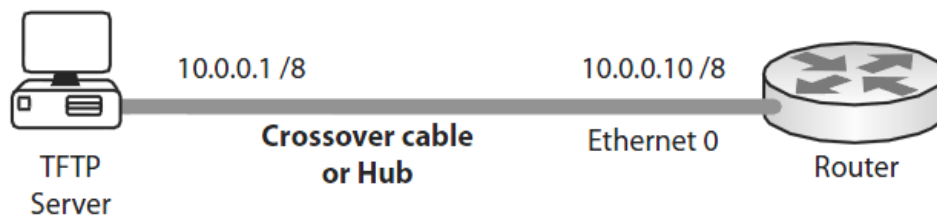


Figure 16–1: TFTP lab

Lab exercise

Your task is to configure the IP addressing as specified in Figure 16–1.

Text written in monospaced type indicates commands that can be entered on the router.

Purpose

Backing up the router's config is a crucial part of your back up and disaster avoidance procedures. You will also need to use a TFTP server if you want to upgrade your router's IOS. Familiarity with using a TFTP server is a fundamental skill for a Cisco engineer.

Lab objectives

1. Configure the router's Ethernet interface.
2. Put TFTP software onto your PC.
3. Connect the PC and router with a crossover cable or using a hub or switch.
4. Ping across the Ethernet link.
5. Copy the startup config from the router to the TFTP Server.

Lab walk-through

1. Configure the network shown in Figure 16–1. If you need help, look at the same as the other labs we have already configured.

```

Router#config t
RouterA(config)#interface fastethernet 0
RouterA(config-if)#ip address 10.0.0.10 255.0.0.0
RouterA(config-if)#no shut
  
```

2. Install TFTP software onto your PC, making it a TFTP server. You can find this from websites, such as www.solarwindsuk.net. Install the software on the root of your C drive.
3. Make sure the PC and the router are both on the same subnet. Change the IP address of the PC to 10.0.0.1 255.0.0.0. You can find how to do this on most common operating systems at www.wown.com.

4. Ping the PC from the router to confirm IP connectivity.


```

Router#ping 10.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.1, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/32/32 ms
      
```

5. Copy the start up config to the tftp server:


```

Router#ping 10.0.0.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.1, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/4/4 ms
      
```

```

Router#copy start tftp:
Address or name of remote host []? 10.0.0.1
Destination filename [router-config]?
!!
421 bytes copied in 0.256 secs
Router#

```

6. Check the TFTP log to make sure the file has been received.

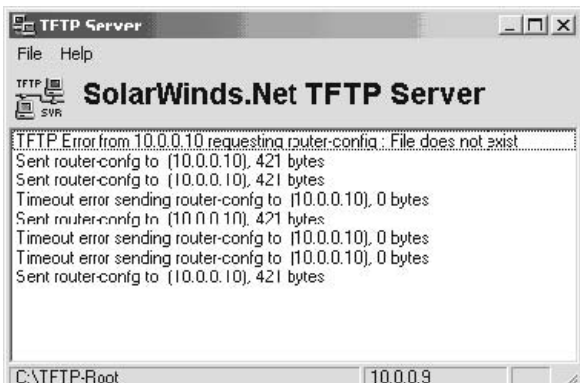


Figure 16-2: SolarWinds TFTP log

7. You can look for the config file on Windows explorer.

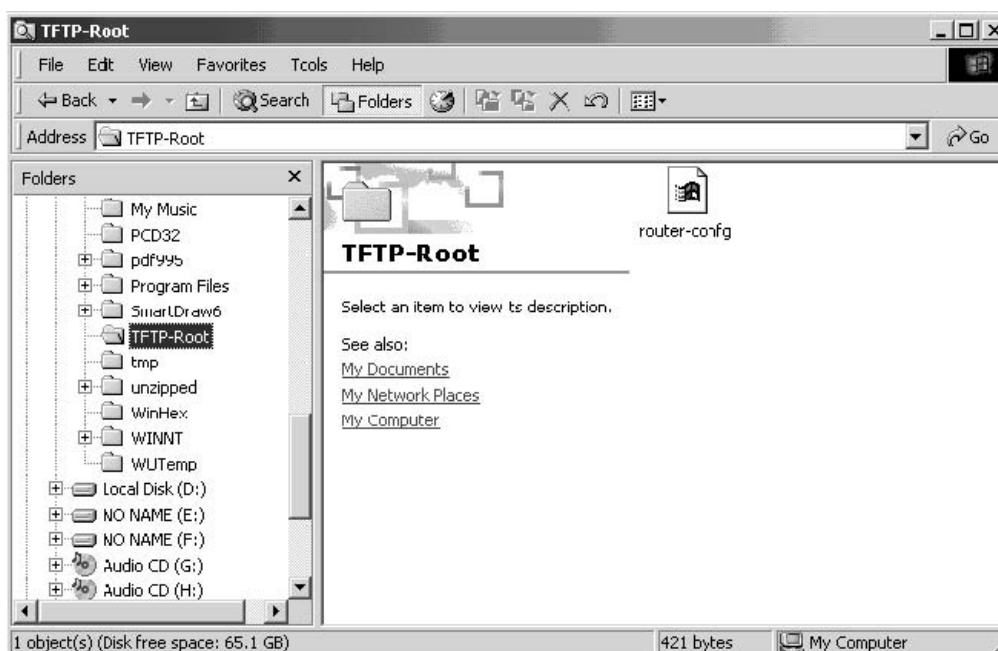


Figure 16-3: Finding the router config file

8. Reload the router. You can copy tftp:

```

Router#ping 10.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/4/4 ms
Router#copy tftp: start
Address or name of remote host []? 10.0.0.1
Source filename []? router-config « Note the spelling
Destination filename [startup-config]? « Just press Enter here
Accessing tftp://10.0.0.1/router-config...Accessing tftp://10.0.0.1/
router-config...
Loading router-config .from 10.0.0.1 (via Ethernet0): !
[OK - 421/4096 bytes]
[OK]
421 bytes copied in 37.980 secs (11 bytes/sec)
Router#

```

00:18:04: %SYS-5-CONFIG_NV_I: Nonvolatile storage configured from
tftp://10.0.0.1/router-config by console

ALWAYS, ALWAYS NAME THE ROUTER'S STARTUP CONFIG AS "startup-config". DOING OTHERWISE WILL
PREVENT THE ROUTER FROM BOOTING CORRECTLY.

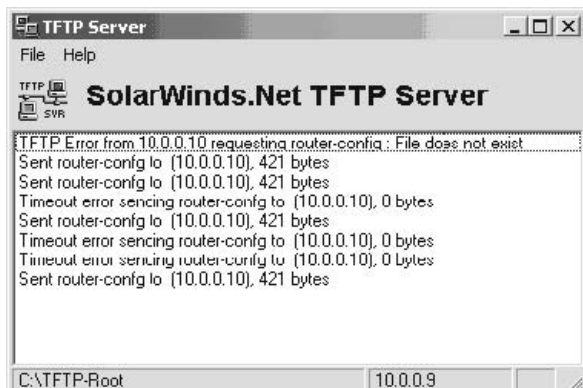
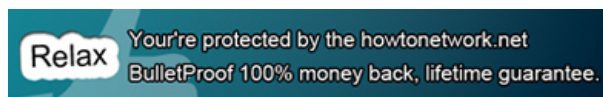


Figure 16-4: The TFTP log shows the transfer



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